

Van Waters & Rogers Inc.
subsidiary of **Univar**

2723 S. Cole Road
Boise, Idaho 83709
208/362-6545
208/362-6548 (FAX)

July 28, 1993

Mr. Carleton A. Wold
Air Quality Compliance Analyst
Idaho Department of Health & Welfare
Division of Environmental Quality
1410 North Hilton
Boise, Idaho 83706

RECEIVED

JUL 30 1993
DIVISION OF
ENVIRONMENTAL QUALITY
SWIRO

Re: Air Quality Monitoring
Van Waters & Rogers Inc.
Permit to Construct #0020-0096

Dear Mr. Wold:

Van Waters & Rogers Inc. (VW&R) has prepared this summary report to update you on the status of the monitoring program being conducted at our soil vapor extraction system located at 140 North Milwaukee Avenue in Boise.

Organic vapor monitoring of the influent and effluent air streams for both the primary and secondary carbon canisters and three vapor monitoring wells was conducted at least daily during SVE operating periods from April 27, 1993 to May 26, 1993. A Model 580B Organic Vapor Meter manufactured by Thermo Environmental Instruments Inc. and calibrated to factory specifications was used to measure organic vapor concentrations at each of the monitoring points. The results of the monitoring and operating periods of the SVE system are summarized on Table 1.

Each breakthrough occurrence of the primary canister is noted in the "Remarks" column of Table 1; date and time of breakthrough are noted in columns 1 and 2, respectively. The SVE system is brought back online immediately following replacement of the spent carbon; therefore, the time of carbon replacement and restart of the system will coincide with each other. These dates and times are noted in columns 1 and 2; a notation is also made in the "Remarks" column.

The SVE system was operated continuously during the second quarter of 1993 except when organic vapors were measured in the effluent air stream from the primary carbon canister. At that time, the SVE system was shut down and the carbon in the primary canister replaced. Vapor monitoring commenced when the SVE system was restarted. No emissions were measured in the effluent air stream from the secondary carbon canister during the period covered by this report. The SVE system was also shut down from May 21, 1993 to May 24, 1993 for maintenance and since May 26, 1993 pending identification of a spent carbon disposal facility. The SVE system will be restarted upon approval of the waste profile from the

USEPA SF



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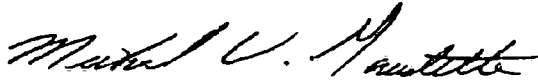
Mr. Carlestone Wold
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disposal facility.

The time between carbon breakthrough during this quarter ranged from 17 hours to seven days.

If you have any questions or require additional information, please call me or leave a voice mail message.

Sincerely,

A handwritten signature in cursive script, appearing to read "Michael V. Gaudette".

Michael V. Gaudette
Senior Project Manager

Boise/SVE/2qtrmon.93

cc: Martin Bauer
Ron Lane
Doug Conde
Wayne Grotheer

Table 1.
Summary of Soil Vapor Extraction System Monitoring
Van Waters & Rogers Inc.
Boise, Idaho

		Organic Vapor Concentrations (ppm as isobutylene)						Remarks
Date	Time	Primary Canister Influent (ppm)	Intermediate (ppm)	Secondary Canister Effluent (ppm)	Vapor Well VM-1 (ppm)	Vapor Well VM-2 (ppm)	Vapor Well VM-3 (ppm)	
4-27-93	1629	2	0	0	---	---	---	System back online after replacement of spent carbon.
4-27-93	1635	85	0	0	---	---	---	
4-27-93	1816	60	0	0	0	0	0	
4-27-93	2120	88	0	0	---	---	---	
4-28-93	0839	90	0	0	0	0	0	
4-28-93	1339	63	0	0	---	---	---	
4-28-93	1907	56	0	0	---	---	---	
4-29-93	0748	81	0	0	0	0	0	
4-30-93	0738	84	0	0	0	0	0	
5-1-93	0913	76	0	0	0	0	0	
5-2-93	0812	72	0	0	0	0	0	
5-2-93	2105	44	0	0	---	---	---	
5-2-93	2120	169	0	0	---	---	---	
5-3-93	0447	189	0	0	---	---	---	
5-3-93	0743	164	0	0	0	0	0	Breakthrough, System shut down.
5-3-93	1413	147	20	0	---	---	---	
5-8-93	2119	---	---	---	---	---	---	System back online after replacement of spent carbon.
5-8-93	2130	266	0	0	---	---	---	
5-9-93	0443	273	0	0	---	---	---	
5-9-93	0847	254	0	0	---	---	---	
5-9-93	1102	252	0	0	0	0	0	
5-9-93	1428	199	0	0	---	---	---	
5-9-93	1851	189	0	0	---	---	---	
5-9-93	2222	173	0	0	---	---	---	
5-10-93	0600	240	0	0	0	0	0	

Table 1 (continued).
Summary of Soil Vapor Extraction System Monitoring
Van Waters & Rogers Inc.
Boise, Idaho

Date	Time	Organic Vapor Concentrations (ppm as isobutylene)						Remarks
		Primary Canister Influent (ppm)	Intermediate (ppm)	Secondary Canister Effluent (ppm)	Vapor Well VM-1 (ppm)	Vapor Well VM-2 (ppm)	Vapor Well VM-3 (ppm)	
5-10-93	1016	231	0	0	---	---	---	
5-10-93	1724	166	0	0	0	0	0	
5-10-93	1910	157	0	0	0	0	0	
5-10-93	2206	157	5.3	0	---	---	---	
5-10-93	2208	---	---	---	---	---	---	Breakthrough; System shut down.
5-11-93	0133	---	---	---	---	---	---	System back online after replacement of spent carbon.
5-11-93	0145	172	0	0	0	0	0	
5-11-93	0145	172	0	0	0	0	0	
5-11-93	0709	155	0	0	---	---	---	
5-11-93	0955	163	0	0	0	0	0	
5-11-93	1112	176	0	0	---	---	---	
5-11-93	1620	135	0	0	0	0	0	
5-12-93	1020	131	0	0	0	0	0	
5-12-93	1537	141.6	0	0	0	0	0	
5-13-93	0945	121	0	0	0	0	0	
5-13-93	1540	127	2.4	0	---	---	---	Breakthrough; System shut down.
5-14-93	2015	---	---	---	---	---	---	System back online after replacement of spent carbon.
5-14-93	2026	324	0	0	0	0	0	
5-15-93	0008	349	0	0	---	---	---	
5-15-93	0626	335	0	0	0	0	0	
5-15-93	1153	295	0	0	0	0	0	
5-15-93	1603	265	0	0	---	---	---	
5-15-93	2022	256	0	0	---	---	---	
5-16-93	0514	330	4.6	0	0	0	0	Breakthrough; System shut down.
5-16-93	1057	---	---	---	---	---	---	System back online after replacement of spent carbon.
5-16-93	1235	404	0	0	0	0	0	

Table 1 (continued).
Summary of Soil Vapor Extraction System Monitoring
Van Waters & Rogers Inc.
Boise, Idaho

Date	Time	Organic Vapor Concentrations (ppm as isobutylene)						Remarks
		Primary Canister Influent (ppm)	Intermediate (ppm)	Secondary Canister Effluent (ppm)	Vapor Well VM-1 (ppm)	Vapor Well VM-2 (ppm)	Vapor Well VM-3 (ppm)	
5-16-93	1653	301	0	0	---	---	---	
5-17-93	0810	360	0	0	0	0	0	
5-17-93	1100	371	0	0	---	---	---	
5-17-93	1600	355	8	0	---	---	---	Breakthrough; System shut down.
5-17-93	2000	22	0	0	---	---	---	System back online after replacement of spent carbon.
5-18-93	1650	3.4	0	0	0	0	0	
5-19-93	1740	10.4	0	0	0	0	0	
5-20-93	1750	10.4	0	0	0	0	0	
5-21-93	1305	9.3	0	0	0	0	0	
5-21-93	1600	---	---	---	---	---	---	System down for maintenance.
5-24-93	1130	---	---	---	---	---	---	System back online.
5-24-93	1600	6	0	0	0	0	0	
5-25-93	1700	17	0	0	0	0	0	
5-26-93	0645	9	0	0	0	0	0	System shut down pending identification of spent carbon disposal facility.

Notes:

1. Concentrations are expressed in parts per million and were measured with a Model 580B Organic Vapor Meter calibrated to a 100 ppm isobutylene standard.
2. The intermediate monitoring point is located between the primary and secondary carbon canisters.
3. Breakthrough dates and times are shaded. Date and time system back online are shaded.
4. Spent carbon replaced on date system back online.